



INTEGRATED
Environmental Services, Inc.

July 27, 1999
Via Delivery

Rod Nelson
California Environmental Protection Agency
Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Subject: **Parcel D Waste Discharge Requirements Permit
Boeing C-6 Facility, 19503 S. Normandie Ave., Los Angeles, California
(FILE NO. 88-57-033(99))**

Dear Mr. Nelson:

In response to your letter dated July 21, 1999 regarding the Waste Discharge Requirements for Discharge of Contaminated Soil from the Boeing Realty Corporation C-6 Facility, we are providing additional information on the arsenic-impacted soil identified as exceeding the 5 mg/kg STLC and 500 mg/kg TTLC threshold limits. In accordance with the approved Parcel D Excavation Plan (IESI 1999), submitted to the Board on July 12, 1999, soil with arsenic concentrations above these limits have undergone isolated excavation and have been stockpiled separately for disposal at a Class I Landfill. Arrangements are currently being made with Waste Management, Kettleman Hills Landfill, to dispose of approximately 20 cubic yards of soil exceeding the STLC and TTLC threshold limits.

Upon completion of each isolated excavation, confirmation samples were collected to verify that the concentrations in the remaining soil were below the STLC and TTLC limits and therefore meet the criteria for disposal at the Bradley Landfill. The locations of isolated excavations are presented in Figure 1. Confirmation sampling data for these excavations are summarized in the attached Table 1 and provided in Attachment 1. Although several of the confirmation sample results exceed 10 times the STLC threshold limit, none were analyzed for STLC because the STLC data collected on 52 samples (refer to Table 2 in WDR Permit Application package) shows that the majority of the samples with concentrations exceeding the STLC limit of 5 mg/kg have TTLC concentrations greater than 200 mg/kg. As a conservative approach, soil exhibiting greater than 100 mg/kg on the side walls and bottoms of the isolated excavation pits were excavated for disposal at Kettleman Hills.

Arsenic-impacted soil is confined to the top 1.5 feet, over an area measuring approximately 400 by 300 feet. Once the isolated excavations were completed and confirmed, excavation of the remaining arsenic-impacted soil was initiated. These soils are stockpiled separately for disposal at the Bradley Landfill. STLC data collected for arsenic-impacted soil to be disposed at Bradley are summarized in Table 2. Laboratory reports for these soil data are provided in the WDR Permit Application package.

This letter serves as an addendum to Boeing's initial Waste Discharge Requirement Permit request, dated July 14, 1999, for the disposal of arsenic-impacted soil at the Bradley Landfill. The initial application package includes a fully executed Form 200 application sheet and the permit fee of \$400.00. This



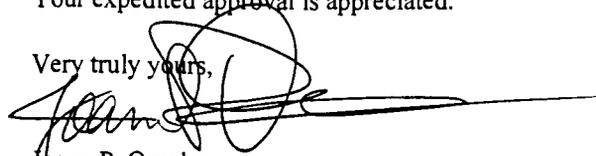
Mr. Rod Nelson
July 27, 1999

addendum includes clarification on the disposal option for arsenic-impacted soils exceeding the STLC and TTLC threshold limits, as well as supporting documentation to allow the Bradley Landfill in Sun Valley, California, to use the C-6 facility's excavated soils for daily cover.

The permit will be applicable for a period of 90 days from the date of issuance, up to a total volumetric soil limit of 10,000 cubic yards. The affected soil will be excavated, segregated by waste characterization, and stockpiled on site until approval is received for transportation and disposal to an approved facility. The excavation of the arsenic-impacted soils is being performed in accordance with the approved Parcel D Excavation Plan (IESI 1999).

If you have any questions, or need more information, please contact me at (949) 852-9050, extension 14. Your expedited approval is appreciated.

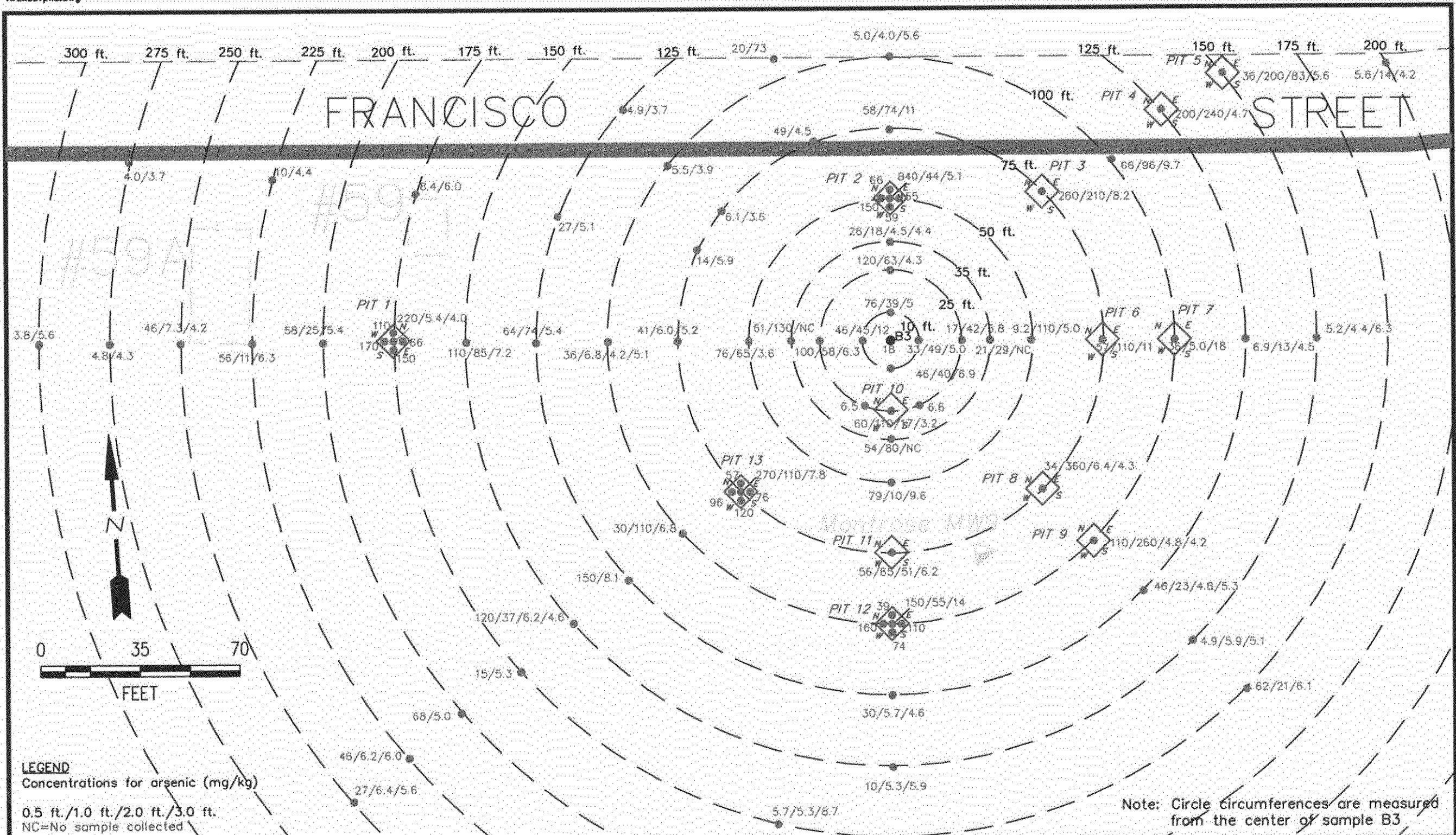
Very truly yours,



Joann P. Ornelas
Program Manager

cc: Mario Stavale, Boeing w/encl.
Augustine Anijiello, RWQCB w/encl.
Deborah Oudiz, DTSC w/encl.

encl.: (1)



LEGEND
 Concentrations for arsenic (mg/kg)
 0.5 ft./1.0 ft./2.0 ft./3.0 ft.
 NC=No sample collected

Note: Circle circumferences are measured from the center of sample B3



TITLE:
 Parcel D Arsenic Isolated Excavation Pits
 Boeing C-6 Facility
 Los Angeles, CA

DWN: JDL	DES.: JDL	PROJECT NO.: BOC6\PDWDR
CHK: JFH	APPD: JPO	FIGURE NO.: 1
DATE: 07/28/99	REV.: 4	

TABLE 1
Parcel D Isolated Excavation Confirmation Sample Log
Par D-C-6 Facility, Los Angeles, California

Date	Time		Sample No.	Concentrat. (mg/kg)	Location	Comments
7/16/99	920	Pit 1	Par D-C-175W-1	9.5	north wall	No further lateral delineation
7/16/99	920		Par D-C-175W-2	11	east wall	
7/16/99	920		Par D-C-175W-3	14	south wall	
7/16/99	925		Par D-C-175W-4	11	west wall	
7/16/99	925		Par D-C-175W-5	4.3	bottom	No further vertical delineation
7/16/99	950	Pit 2	Par D-C-50N-1	38	north wall	Top 1.5 feet soil will be removed during overall surface excavation. Addit. Confirm. samples to be collected.
7/16/99	950		Par D-C-50N-2	55	east wall	
7/16/99	950		Par D-C-50N-3	64	south wall	
7/16/99	955		Par D-C-50N-4	50	west wall	
7/16/99	955		Par D-C-50N-5	4.3	bottom	No further vertical delineation
7/16/99	1010	Pit 3	Par D-C-75NE-1	72	north wall	Top 1.5 feet soil will be removed.
7/16/99	1010		Par D-C-75NE-2	170	east wall	Addit. lateral delineation req'd.
7/20/99			Par D-C-75NE-2A	200	east wall	Addit. 1.0 ft excavated 7/20/99; addit lateral delineation req'd
7/22/99			Par D-C-75NE-2B	130	east wall	Addit. 2.0 ft excavated 7/22/99
				NA	east wall	Addit. 1.5 ft excavated 7/26/99; overall excavation area 14' by 12' by 1.5'; top 1.5 ft to be removed.
7/16/99	1010		Par D-C-75NE-3	110	south wall	Addit. lateral delineation req'd.
7/20/99			Par D-C-75NE-3A	200	south wall	Addit. 0.5 ft excavated 7/20/99; addit lateral delineation req'd
				150		Addit. 2.0 ft excavated 7/22/99; remaining to be removed in overall excavation.
7/22/99			Par D-C-75NE-3B		south wall	
				NA	south wall	Addit. 1.5 ft excavated 7/26/99; overall excavation area 14' by 12' by 1.5'; top 1.5 ft to be removed.
7/16/99	1015	Par D-C-75NE-4	140	west wall	Addit. lateral delineation req'd.	
7/20/99		Par D-C-75NE-4A	120	west wall	Addit. 1.0 ft excavated 7/20/99; addit lateral delineation req'd	
					Addit. 2.0 ft excavated 7/22/99; remaining to be removed in overall excavation.	
7/22/99		Par D-C-75NE-4B	69	west wall		
7/16/99	1015	Par D-C-75NE-5	7.5	bottom	No further vertical delineation	
7/16/99	1030	Pit 4	Par D-C-125NE-1	8.9	north wall	Top 1.5 feet soil will be removed during overall surface excavation. Addit. Confirm. samples to be collected.
7/16/99	1030		Par D-C-125NE-2	16	east wall	
7/16/99	1030		Par D-C-125NE-3	67	south wall	
7/16/99	1035		Par D-C-125NE-4	31	west wall	
7/16/99	1035		Par D-C-125NE-5	8.4	bottom	No further vertical delineation
7/16/99	1045	Pit 5	Par D-C-150NE-1	20	north wall	Top 1.5 feet soil will be removed during overall surface excavation. Addit. Confirm. samples to be collected.
7/16/99	1045		Par D-C-150NE-2	19	east wall	
7/16/99	1045		Par D-C-150NE-3	110	south wall	Addit. lateral delineation req'd.
7/20/99			Par D-C-150NE-3A	59	south wall	Addit. 0.5 ft excavated 7/20/99; no further lateral delineation, top 1.5 feet to be removed.
7/16/99	1050		Par D-C-150NE-4	42	west wall	See north and east wall comment

**Parcel D Isolated Excavation Confirmaiton Sample Log
Par D-C-6 Facility, Los Angeles, California**

Date	Time		Sample No.	Concentrat. (mg/kg)	Location	Comments
7/16/99	1050		Par D-C-150NE-5	11	bottom	No further vertical delineation
7/16/99	1335	Pit 6	Par D-C-75E-1	180	north wall	Addit. lateral delineation req'd.
7/20/99			Par D-C-75E-1A	33	north wall	Addit. 1.0 ft excavated 7/20/99; no further lateral delineation, top 1.5 feet to be removed.
7/16/99	1335		Par D-C-75E-2	62	east wall	Top 1.5 feet soil will be removed during overall surface excavation. Addit. Confirm. samples to be collected.
7/16/99	1335		Par D-C-75E-3	49	south wall	
7/16/99	1340		Par D-C-75E-4	90	west wall	Addit. lateral delineation req'd.
7/20/99			Par D-C-75E-4A	79	west wall	Addit. 0.5 ft excavated 7/20/99; no further lateral delineation, top 1.5 feet to be removed.
7/16/99	1340		Par D-C-75E-5	19	bottom	Addit. vertical delineation req'd.
7/20/99			Par D-C-75E-5A	6.7	bottom	Addit. 0.5 ft excavated 7/20/99; No further vertical delineation
7/16/99	1345	Pit 7	Par D-C-100E-1	6.9	north side wall	No further lateral delineation
7/16/99	1345		Par D-C-100E-2	7.1	east side wall	
7/16/99	1345		Par D-C-100E-3	6.4	south side wall	
7/16/99	1350		Par D-C-100E-4	6.4	west sidewall	
7/16/99	1350		Par D-C-100E-5	6.1	bottom	No further vertical delineation
7/16/99	825	Pit 8	Par D-C-75SE-1	7.5	north wall	No further lateral delineation
7/16/99	825		Par D-C-75SE-2	190	east wall	Addit. lateral delineation req'd.
7/20/99			Par D-C-75SE-2A	72	east wall	Addit. 1.0 ft excavated 7/20/99; no further lateral delineation, top 1.5 feet to be removed.
7/16/99	825		Par D-C-75SE-3	6.5	south wall	No further lateral delineation
7/16/99	830		Par D-C-75SE-4	6.5	west wall	
7/16/99	830		Par D-C-75SE-5	11	bottom	No further vertical delineation
7/16/99	810	Pit 9	Par D-C-100SE-1	5.8	north wall	Top 1.5 feet soil will be removed during overall surface excavation. Addit. Confirm. samples to be collected.
7/16/99	810		Par D-C-100SE-2	12	east wall	
7/16/99	810		Par D-C-100SE-3	15	south wall	
7/16/99	815		Par D-C-100SE-4	11	west wall	
7/16/99	815		Par D-C-100SE-5	7.2	bottom	No further vertical delineation
7/16/99	1400	Pit 10	Par D-C-25S-1	8.9	north wall	Top 1.5 feet soil will be removed during overall surface excavation. Addit. Confirm. samples to be collected.
7/16/99	1400		Par D-C-25S-2	6.6	east wall	
7/16/99	1400		Par D-C-25S-3	16	south wall	
7/16/99	1405		Par D-C-25S-4	6.1	west wall	
7/16/99	1405		Par D-C-25S-5	4.9	bottom	No further vertical delineation
7/16/99	1420	Pit 11	Par D-C-75S-1	10	north wall	Top 1.5 feet soil will be removed during overall surface excavation. Addit. Confirm. samples to be collected.
7/16/99	1420		Par D-C-75S-2	8.1	east wall	
7/16/99	1420		Par D-C-75S-3	25	south wall	
7/16/99	1425		Par D-C-75S-4	78	west wall	
7/16/99	1425		Par D-C-75S-5	6.1	bottom	No further vertical delineation
7/16/99	840	Pit 12	Par D-C-100S-1	6.4	north wall	No further lateral delineation
7/16/99	840		Par D-C-100S-2	5.9	east wall	
7/16/99	840		Par D-C-100S-3	8.5	south wall	
7/16/99	845		Par D-C-100S-4	5.7	west wall	

**Parcel D Isolated Excavation Confirmaiton Sample Log
Par D-C-6 Facility, Los Angeles, California**

Date	Time		Sample No.	Concentrat. (mg/kg)	Location	Comments
7/16/99	845		Par D-C-100S-5	4.4	bottom	No further vertical delineation
7/16/99	855	Pit 13	Par D-C-75SW-1	23	north wall	Top 1.5 feet soil will be removed during overall surface excavation. Addit. Confirm. samples to be collected.
7/16/99	855		Par D-C-75SW-2	42	east wall	
7/16/99	855		Par D-C-75SW-3	17	south wall	
7/16/99	900		Par D-C-75SW-4	48	west wall	
7/16/99	900		Par D-C-75SW-5	7.3	bottom	No further vertical delineation

Notes:

Boldface indicates concentration above HBRG of 14 mg/kg, but within range for disposal at Bradley Landfill.

Shading indicates concentration is above the range for disposal at Bradley Landfill. Additional excavation conducted and soil to be disposed at Kettleman Hills Landfill.

TABLE 2
STLC and TCLP Analytical Results for Arsenic Soil Samples
Boeing C-6 Facility, Parcel D
(Continued)

Sample ID	Total Arsenic (mg/kg)	STLC (mg/kg)
B3C-100SE-0.5	110	3.6
B3C-100SW-1.0	110	3.5
B3C-125SW-0.5	150	3.7
B3C-125W-0.5	64	1.9
B3C-125W-1.0	74	2.7
B3C-150NE-1.0	200	2.6
B3C-150NE-2.0	83	3.1
B3C-150SW-0.5	120	4.8
B3C-150W-0.5	110	3.7
B3C-150W-1.0	85	2.8
B3C-175SE-1.0	62	1.2
B3C-200SW-0.5	68	1.5
B3C-200W-0.5	58	2.1
B3C-225W-0.5	56	2.6

Notes:

- 1) Total arsenic analyzed using EPA Method 6010.
- 2) STLC per CCR Title 22.
- 3) TCLP analyzed using EPA Method 1311.

TABLE 2
STLC and TCLP Analytical Results for Arsenic Soil Samples to be Disposed at the Bradley Landfill
Boeing C-6 Facility, Parcel D

Sample ID	Total Arsenic (mg/kg)	STLC (mg/kg)
B3C-10N-0.5	76	2.8
B3C-25N-0.5	120	3.4
B3C-25N-1.0	63	2.1
B3C-25S-0.5	60	2.1
B3C-25S-1.0	110	3.9
B3C-25W-0.5	100	3.2
B3C-25W-1.0	58	2.4
B3C-35S-0.5	54	2.1
B3C-35S-1.0	80	2.6
B3C-35W-0.5	61	2.2
B3C-35W-1.0	130	3.9
B3C-50E-1.0	110	4.9
B3C-50S-0.5	79	2.6
B3C-50W-0.5	76	3.1
B3C-50W-1.0	65	2.9
B3C-75E-0.5	57	1.8
B3C-75N-0.5	58	2.2
B3C-75N-1.0	74	3.0
B3C-75S-0.5	56	1.5
B3C-75S-1.0	65	2.3
B3C-75S-2.0	51	1.6
B3C-100NE-0.5	66	3.2
B3C-100NE-1.0	96	3.4
B3C-100S-0.5	150	4.8
B3C-100S-1.0	55	2.7
B3C-100S-B0.5	110	4.6
B3C-100S-C0.5	74	2.0

ATTACHMENT 1

**PARCEL D ISOLATED EXCAVATION PIT CONFIRMATION SAMPLES
LABORATORY REPORTS**



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification

(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Integrated Environmental Services, Inc.

Project No.:

Project Name: Parcel D

Laboratory Reference: IES 11036

Analytical Method: Metals

Date Sampled: 07/22/99

Date Received: 07/22/99

Date Reported: 07/23/99

Sample Matrix: Soil

Chain of Custody Received: Yes

Laboratory Director's Signature: 



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification

(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Integrated Environmental Services, Inc.

Project No.:

Project Name: Boeing Parcel D

Laboratory Reference: IES 11022

Analytical Method: Metals

Date Sampled: 07/16/99

Date Received: 07/16/99

Date Reported: 07/19/99

Sample Matrix: Soil

Chain of Custody Received: Yes

Laboratory Director's Signature: 

Integrated Environmental Services

Ms. Joann Omelas
3990 Westerly Pl. Suite 210
Newport Beach, CA 92660

Client Project ID: Boeing Parcel D
Client Project #:

Sample Description: Soil,

Laboratory Reference #: IES 11022

Sampled: 07/16/99
Received: 07/16/99
Analyzed: 07/19/99
Reported: 07/19/99

TOTAL ARSENIC (EPA 6010)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS mg/kg
99070267	Par D-C175W-1	9.5
99070268	Par D-C175W-2	11
99070269	Par D-C175W-3	14
99070270	Par D-C175W-4	11
99070271	Par D-C175W-5	4.3
99070272	Par D-C100S-1	6.4
99070273	Par D-C100S-2	5.9
99070274	Par D-C100S-3	8.5
99070275	Par D-C100S-4	5.7
99070276	Par D-C100S-5	4.4
99070277	Par D-C75SW-1	23
99070278	Par D-C75SW-2	42
99070279	Par D-C75SW-3	17
99070280	Par D-C75SW-4	48
99070281	Par D-C75SW-5	7.3

Detection Limit 1.0

Analyte reported as N.D. were not present above the stated limit of detection.



Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

REQUIRED TAT: 24-hr TAT

CUSTOMER INFORMATION		PROJECT INFORMATION				ANALYSIS METHOD REQUEST	REMARKS/PRECAUTIONS
COMPANY:	PROJECT NAME:	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX		
3000 Clovis	Boring Tunnel D	1	7/16/99	920	SW	4-02	-
SEND REPORT TO: Jordan Ornelas	NUMBER:	1		920			
ADDRESS: 2990 Westlake Pl	LOCATION: Los Angeles, CA	1		925			
Newport Beach, CA 92660	ADDRESS:	1		925			
PHONE: 949 852 4057 FAX: 949 852 9011	SAMPLED BY:	1		840			
		1		840			
		1		845			
		1		845			
		1		855			
		1		855			
		1		900			
Total No. of Samples: 14		Method of Shipment:					
Relinquished By:	Date/Time: 7/16/99	Received By:	Date/Time:	Reporting Format: (check)			
Relinquished By:	Date/Time:	Received By:	Date/Time:	NORMAL _____ S.D. HMMD _____			
Relinquished By:	Date/Time:	Received For Lab By: Mark Mori	Date/Time: 7/16/99 17:30	RWQCB _____ OTHER _____			
Relinquished By:	Date/Time:			Sample Integrity: (check)			
				intact _____ on ice _____			

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification

(ELAP) No.: 1416

Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Integrated Environmental Services, Inc.

Project No.:

Project Name: Boeing Parcel D

Laboratory Reference: IES 11024

Analytical Method: Metals

Date Sampled: 07/16/99

Date Received: 07/16/99

Date Reported: 07/19/99

Sample Matrix: Soil

Chain of Custody Received: Yes

Laboratory Director's Signature: 

Integrated Environmental Services

Ms. Joann Ornelas
3990 Westerly Pl. Suite 210
Newport Beach, CA 92660

Client Project ID: Boeing Parcel D

Client Project #:

Sample Description: Soil,

Laboratory Reference #: IES 11024

Sampled: 07/16/99

Received: 07/16/99

Analyzed: 07/19/99

Reported: 07/19/99

TOTAL ARSENIC (EPA 6010)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS mg/kg
99070307	Par D-C100E-1	6.9
99070308	Par D-C100E-2	7.1
99070309	Par D-C100E-3	6.4
99070310	Par D-C100E-4	6.4
99070311	Par D-C100E-5	6.1
99070312	Par D-C75SE-1	7.5
99070313	Par D-C75SE-2	190
99070314	Par D-C75SE-3	6.5
99070315	Par D-C75SE-4	6.5
99070316	Par D-C75SE-5	11
99070317	Par D-C100 SE-1	5.8
99070318	Par D-C100 SE-2	12
99070319	Par D-C100 SE-3	15
99070320	Par D-C100 SE-4	11
99070321	Par D-C100 SE-5	7.2
99070322	Par D-C25S-1	8.9
99070323	Par D-C25S-2	6.6
99070324	Par D-C25S-3	16
99070325	Par D-C25S-4	6.1
99070326	Par D-C25S-5	4.9
99070327	Par D-C75S-1	10
99070328	Par D-C75S-2	8.1
99070329	Par D-C75S-3	25
99070330	Par D-C75S-4	78
99070331	Par D-C75S-5	6.1

Detection Limit 1.0

Analyte reported as N.D. were not present above the stated limit of detection.



Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

Lab Job No: 2
Page 2 of 2

REQUIRED TAT: 24-hr TAT

CUSTOMER INFORMATION		PROJECT INFORMATION				ANALYSIS/METHOD REQUEST	REMARKS/PRECAUTIONS
COMPANY:	PROJECT NAME:	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX		
Boerny 40151	Boerny Records	1	7/16/99	815	Sol	4-02	-
SEND REPORT TO: Jordan Ornelas		1		1400			
ADDRESS: 3990 Westley Pl	Los Angeles, CA	1		1400			
Newport Beach, CA		1		1405			
		1		1405			
		1		1420			
		1		1420			
		1		1425			
		1		1425			
Total No. of Samples: <u>11</u>		Method of Shipment:					
Relinquished By: <u>[Signature]</u>	Date/Time: <u>7/16/99</u>	Received By:		Date/Time:		Reporting Format: (check) NORMAL _____ S.D. HMMD _____ RWQCB _____ OTHER _____	
Relinquished By: <u>[Signature]</u>	Date/Time: <u>7/16/99</u>	Received By:		Date/Time:		Sample Integrity: (check) intact _____ on ice _____	
Relinquished By: <u>[Signature]</u>	Date/Time: <u>7/16/99</u>	Received For Lab By: <u>[Signature]</u>		Date/Time: <u>7/16/99 17:30</u>			

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

REQUIRED TAT: 24 hr TAT

CUSTOMER INFORMATION		PROJECT INFORMATION				ANALYSIS/METHOD REQUEST	REMARKS/PRECAUTIONS
COMPANY:	PROJECT NAME:	PROJECT NUMBER:	SAMPLE DATE:	SAMPLE TIME:	SAMPLE MATRIX:		
COMPANY: <u>Boeing 410 1E51</u> SEND REPORT TO: <u>Madan Ornelas</u> ADDRESS: <u>3990 Westview Pl</u> <u>Newport Beach, CA 92660</u>	PROJECT NAME: <u>Boeing Parcel D</u> PROJECT NUMBER: _____ LOCATION: <u>Los Angeles, CA</u> ADDRESS: _____	NO. OF CONTAINERS: _____ SAMPLE ID: _____ PHONE: <u>949 852 9013</u> FAX: <u>949 852 9011</u>	SAMPLE DATE: <u>7/16/99</u> SAMPLE TIME: <u>1345</u> CONTAINER TYPE: <u>4-02</u> PRES.: <u>-</u>	ANALYSIS/METHOD REQUEST: <u>EPA Lead (Pb) (M)</u>	REMARKS/PRECAUTIONS: <u>Fax Results - 24 hr TAT</u>		
SAMPLE ID: <u>Pan D - CIDDE-1</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>1345</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - CIDDE-2</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>1345</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - CIDDE-3</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>1345</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - CIDDE-4</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>1350</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - CIDDE-5</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>1350</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - C75SE-1</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>825</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - C75SE-2</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>825</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - C75SE-3</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>825</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - C75SE-4</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>825</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - C75SE-5</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>820</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - C100SE-1</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>830</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - C100SE-2</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>810</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - C100SE-3</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>810</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
SAMPLE ID: <u>Pan D - C100SE-4</u> PHONE: _____ FAX: _____	SAMPLE DATE: _____ SAMPLE TIME: <u>815</u> CONTAINER TYPE: _____ PRES.: _____	ANALYSIS/METHOD REQUEST: _____	REMARKS/PRECAUTIONS: _____				
Total No. of Samples: <u>14</u>	Method of Shipment: _____	Reporting Format: (check) NORMAL _____ S.D. HMMD _____ RWQCB _____ OTHER _____	Sample Integrity: (check) intact _____ on ice _____				
Relinquished By: <u>[Signature]</u> Date/Time: <u>7/16/99</u>	Received By: _____ Date/Time: _____	Relinquished By: _____ Date/Time: _____	Received For Lab By: <u>Mark Moroni</u> Date/Time: <u>7-16-99/17:30</u>				

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification

(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Integrated Environmental Services, Inc.

Project No.:

Project Name: Boeing Parcel D

Laboratory Reference: IES 11023

Analytical Method: Metals

Date Sampled: 07/16/99

Date Received: 07/16/99

Date Reported: 07/19/99

Sample Matrix: Soil

Chain of Custody Received: Yes

Laboratory Director's Signature: *Mark Noorani*

Integrated Environmental Services

Ms. Joann Ornelas
3990 Westerly Pl. Suite 210
Newport Beach, CA 92660

Client Project ID: Boeing Parcel D
Client Project #:

Sample Description: Soil,

Laboratory Reference #: IES 11023

Sampled: 07/16/99
Received: 07/16/99
Analyzed: 07/19/99
Reported: 07/19/99

TOTAL ARSENIC (EPA 6010)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS mg/kg
99070282	Par D-C50N-1	38
99070283	Par D-C50N-2	55
99070284	Par D-C50N-3	64
99070285	Par D-C50N-4	50
99070286	Par D-C50N-5	4.3
99070287	Par D-C75NE-1	72
99070288	Par D-C75NE-2	170
99070289	Par D-C75NE-3	110
99070290	Par D-C75NE-4	140
99070291	Par D-C75NE-5	7.5
99070292	Par D-C125NE-1	8.9
99070293	Par D-C125NE-2	16
99070294	Par D-C125NE-3	67
99070295	Par D-C125NE-4	31
99070296	Par D-C125NE-5	8.4
99070297	Par D-C150NE-1	20
99070298	Par D-C150NE-2	19
99070299	Par D-C150NE-3	110
99070300	Par D-C150NE-4	42
99070301	Par D-C150NE-5	11
99070302	Par D-C75E-1	180
99070303	Par D-C75E-2	62
99070304	Par D-C75E-3	49
99070305	Par D-C75E-4	90
99070306	Par D-C75E-5	19

Detection Limit 1.0

Analyte reported as N.D. were not present above the stated limit of detection.

Analysis Request and Chain of Custody Record

Lab Job No: _____ of _____
Page _____ of _____

REQUIRED TAT: 24hr



ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

CUSTOMER INFORMATION			PROJECT INFORMATION				ANALYSIS/METHOD REQUEST	REMARKS/PRECAUTIONS		
COMPANY:	PROJECT NAME:	PROJECT NUMBER:	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX			CONTAINER TYPE	PRES.
Boeing Co 1051	Pixing Parcel D		1	7/14/99	950	soil	4-DZ	-	Fax results - 24hr TAT	
Send Report To: Joaquin Ornelas	LOCATION: Los Angeles, CA		1	9500	950					
Address: 3940 Westpark Place	ADDRESS:		1	9500	950					
Newport Beach, CA 92660			1	9500	955					
PHONE: 949 852 9050 FAX: 949 852 9011	SAMPLED BY: JPS		1	9500	955					
			1	1010	1010					
			1	1010	1010					
			1	1015	1015					
			1	1015	1015					
			1	1030	1030					
			1	1030	1030					
			1	1035	1035					
			1	1035	1035					
			1	1035	1035					
Total No. of Samples: 14			Method of Shipment: <u>delivered</u>							
Relinquished By: <u>[Signature]</u>			Received By:			Date/Time:			Reporting Format: (check) NORMAL _____ S.D. HMMD _____	
Relinquished By: <u>[Signature]</u>			Received By:			Date/Time:			RWQCB _____ OTHER _____	
Relinquished By: _____			Received For Lab By: <u>[Signature]</u>			Date/Time: 7/16/99 17:30			Sample Integrity: (check) intact _____ on ice _____	

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples



Analysis Request and Chain of Custody Record

Lab Job No: 2 of 2
Page 2

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

REQUIRED TAT: 24 hr TAT

CUSTOMER INFORMATION		PROJECT INFORMATION				ANALYSIS/METHOD REQUEST	REMARKS/PRECAUTIONS	
COMPANY: <u>Edwards</u>	PROJECT NAME: <u>Evangel Harcelo</u>	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX			CONTAINER TYPE
SEND REPORT TO: <u>Jordan Ornelas</u>	NUMBER:							
ADDRESS: <u>3990 Western Place</u>	LOCATION: <u>Los Angeles, CA</u>							
<u>North Beach CA 92660</u>	ADDRESS: <u>60</u>							
PHONE: <u>949 852 9080</u> FAX: <u>949 852 9011</u>	SAMPLED BY: <u>JLO</u>							
<u>Pan D - C15NE-5</u>	<u>7/16/99</u>	<u>1</u>	<u>1035</u>	<u>1045</u>	<u>Soil</u>	<u>4-02E</u>	<u>-</u>	<u>Fan K51162 24-h</u>
<u>Pan D - C15NE-1</u>		<u>1</u>						
<u>Pan D - C15NE-2</u>		<u>1</u>						
<u>Pan D - C15NE-3</u>		<u>1</u>						
<u>Pan D - C15NE-4</u>		<u>1</u>						
<u>Pan D - C15NE-5</u>		<u>1</u>						
<u>Pan D - C7SE-1</u>		<u>1</u>	<u>1335</u>					
<u>Pan D - C7SE-2</u>		<u>1</u>	<u>1335</u>					
<u>Pan D - C7SE-3</u>		<u>1</u>	<u>1335</u>					
<u>Pan D - C7SE-4</u>		<u>1</u>	<u>1340</u>					
<u>Pan D - C7SE-5</u>		<u>1</u>	<u>1340</u>					
Total No. of Samples: <u>11</u>		Method of Shipment:						
Relinquished By: <u>[Signature]</u>	Date/Time: <u>7/16/99</u>	Received By:	Date/Time:	Reporting Format: (check)				
Relinquished By:	Date/Time:	Received By:	Date/Time:	NORMAL <input type="checkbox"/> S.D. HMMD <input type="checkbox"/>				
Relinquished By:	Date/Time:	Received For Lab By: <u>Mark Mariano</u>	Date/Time: <u>7/16/99 17:30</u>	RWQCB <input type="checkbox"/> OTHER <input type="checkbox"/>				
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:	Sample Integrity: (check)				
				intact <input type="checkbox"/> on ice <input type="checkbox"/>				

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples



ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification

(ELAP) No.: 1416

Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Integrated Environmental Services, Inc.

Project No.:

Project Name: Boeing Parcel D

Laboratory Reference: IES 11029

Analytical Method: Metals

Date Sampled: 07/20/99

Date Received: 07/20/99

Date Reported: 07/21/99

Sample Matrix: Soil

Chain of Custody Received: Yes

Laboratory Director's Signature: 

Integrated Environmental Services

Ms. Joann Ornelas
3990 Westerly Pl. Suite 210
Newport Beach, CA 92660

Client Project ID: Parcel D Conf.

Client Project #:

Sample Description: Soil,

Laboratory Reference #: IES 11029

Sampled: 07/20/99

Received: 07/20/99

Analyzed: 07/21/99

Reported: 07/21/99

TOTAL ARSENIC (EPA 6010)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS mg/kg
99070353	Par D-C150NE-3A	59
99070354	Par D-C75NE-3A	200
99070355	Par D-C75NE-4A	120
99070356	Par D-C75NE-2A	200
99070357	Par D-C75E-1A	33
99070358	Par D-C75E-4A	79
99070359	Par D-75E-5A	6.7
99070360	Par D-C75SE-2A	72

Detection Limit 1.0

Analyte reported as N.D. were not present above the stated limit of detection.



Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

Lab Job No: _____
Page _____ of _____

REQUIRED TAT: 24-hr TAT

CUSTOMER INFORMATION		PROJECT INFORMATION				ANALYSIS/METHOD REQUEST	REMARKS/PRECAUTIONS
COMPANY:	PROJECT NAME:	PROJECT NUMBER:	SAMPLE DATE:	SAMPLE TIME:	SAMPLE MATRIX:		
Boeing e/o IFSJ	Parcel D Conf.		7/20/99	0835	soil	4-oz	Fax results
SEND REPORT TO: Jordan Ornelas				0858			
ADDRESS:				0900			
				0902			
				0905			
				0908			
				0910			
				0914			
PHONE: (949) 852-9050 FAX: (949) 852-9011	SAMPLED BY: Anderson Cheng	NO. OF CONTAINERS:					
SAMPLE ID							
Par D - C150NE-3A		1					
Par D - C75 NE-3A							
Par D - C75 NE-4A							
Par D - C75 NE-2A							
Par D - C75 E-1A							
Par D - C75 E-4A							
Par D - C75 E-5A							
Par D - C75 SE-2A							
Total No. of Samples: 8		Method of Shipment: <u>Deliverty</u>					
Relinquished By: <u>Anderson Cheng</u>		Received By: _____		Date/Time: <u>7/20/99 / 1352</u>		Reporting Format: (check) NORMAL _____ S.D. HMMD _____	
Relinquished By: _____		Received By: _____		Date/Time: _____		RWQCB _____ OTHER _____	
Relinquished By: _____		Received For Lab By: <u>Jordan Ornelas</u>		Date/Time: <u>7-20-99 3:00pm</u>		Sample Integrity: (check) intact _____ on ice _____	

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Integrated Environmental Services

Ms. Joann Ornelas
3990 Westerly Pl. Suite 210
Newport Beach, CA 92660

Client Project ID: Parcel D

Client Project #:

Sample Description: Soil,

Laboratory Reference #: IES 11036

Sampled: 07/22/99

Received: 07/22/99

Analyzed: 07/23/99

Reported: 07/23/99

TOTAL ARSENIC (EPA 6010)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS mg/kg
99070404	Par D-C75NE-2B	130
99070405	Par D-C75NE-3B	150
99070406	Par D-C75NE-4B	69

Detection Limit 1.0

Analyte reported as N.D. were not present above the stated limit of detection.